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TURN *the*  
FAUCET-

*The* RUUD

DOES *the* REST







# Instantaneous Hot Water

AT A SET TEMPERATURE

## COMPLETE DIRECTIONS

Note carefully the instructions  
for operating the Ruud  
Water Heater

*“TURN  
THE  
FAUCET”*

## NOTE

Our Norwegian name is spelled R-U-U-D,  
and pronounced as tho' spelled "Rude"



St. Louis, 1904



Medal of Merit  
Franklin Institute  
Philadelphia  
1905



# Instantaneous Hot Water

AT A SET TEMPERATURE

AS FURNISHED BY THE

RUUD INSTANTANEOUS AUTOMATIC  
GAS WATER HEATER

TEN GALLONS OF  
SCALDING HOT WATER  
FOR ONE CENT

## IMPORTANT NOTICE

The Ruud is the ONLY Automatic Water Heater possessing an Internal Thermostat, giving automatic "Temperature Regulation," ensuring reliability, safety and economy. These exclusive features are covered by broad patents.

Ruud success has led others to imitate and attempt infringements, which we have had to stop by legal process.

We warn intending purchasers against buying other heaters fitted with so-called Ruud Thermostatic features.

## RUUD MANUFACTURING COMPANY

General Offices and Factory

340-342 SECOND AVENUE

PITTSBURG, PA.

Catalog **K**  
Sixth Edition  
Artificial Gas

20M-7.00 **PHILADELPHIA AGENCY**

**Chas. F. Bartlett, 1938 Market Street**

**Telephones**

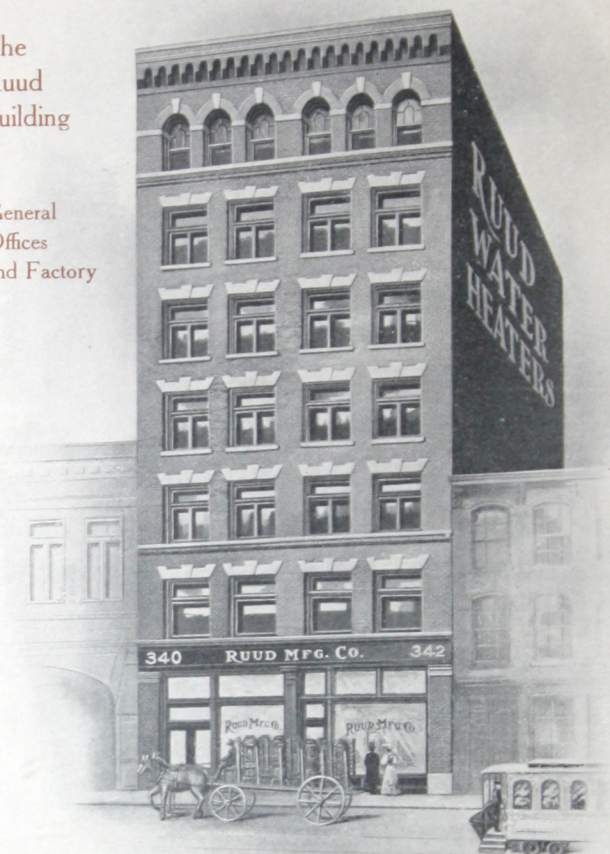
**Bell, Locust 26-65 A**

**Keystone, Race 58-30 A**



The  
Ruud  
Building

General  
Offices  
and Factory



BRANCHES

Boston, 10 Lincoln Street  
Philadelphia, 1938 Market Street  
Cincinnati, 1003-5 Elm Street  
Indianapolis, 45 S. Penna. Street  
Chicago, 85 East Lake Street  
Kansas City, 1406 Main Street  
Columbus, 346 North High Street  
Los Angeles, 829 Herman W. Hell-  
man Building

Cleveland, (Old No.) 285 Prospect Ave.  
New York, 81 Fulton Street  
Detroit, 206 Jefferson Avenue  
Louisville, 238 Third Street  
Milwaukee, 131 Oneida Street  
St. Louis, 1611 Washington Avenue  
Dallas, Texas, 368 Commerce Street  
Oakland, Cal., 365 Twelfth Street

European Factory and Depots

Ruud Heisswasser Apparatebau Gesellschaft, Hamburg, Germany  
London Branch, 28 Audrey House, Ely Place, Holborn Circus



Hot Water as obtained by  
the Original American

You don't need to re-pipe  
your house—Connect the  
Ruud with the pipes al-  
ready there, and "Turn the  
Faucet."

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## THE HOT WATER PROBLEM

The title is slightly misleading, for the hot water problem is not a problem any more—at least, not unless you wish it to be.

The Ruud Heater has made it a very plain, simple proposition and placed it beyond the list of problematic uncertainties.

When you want hot water you want it *at once*, and you want it *hot*.

Under the old system of kitchen boiler with its various heater attachments, sometimes you can get hot water, and sometimes you can't—principally the latter when you want it very badly.

Under the new system, with a Ruud installed, there can be no uncertainty, no failure of the supply when it is most needed, no lukewarm water when it ought to be scalding hot.

The hot water is available all the time, at any hour of the day or night, in unlimited quantities, and it is always *hot*.

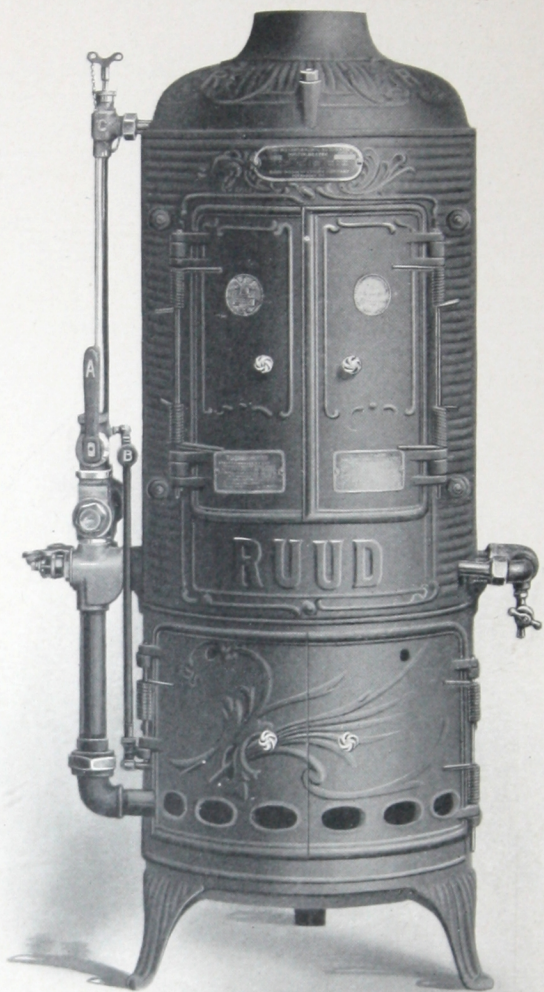
There is absolutely no bother or trouble or uncertainty about it. You turn any hot water faucet and the hot water comes; you close the faucet

The bath of  
boyhood days



421 41750-11-11





### The Ruud Instantaneous Automatic Water Heater

Protected by United States, British, Canadian, French, German and Russian Patents

#### U. S. PATENTS

Dec. 30, 1890; Sept. 29, 1891; Oct. 29, 1895; April 7, 1896; Sept. 6, 1898; June 4, 1901;  
Sept. 10, 1901; Feb. 23, 1904; May 31, 1904; May 16, 1905,  
and other Patents pending





Hot Water as obtained  
by the Nomad

and it stops; this is the whole story in a nutshell, and when the water stops running, the gas that heats it stops burning.

You are at no expense for fuel except for the short time at which you are actually drawing the hot water.

The Ruud Heater is an economical device, as well as a marvelously convenient one.

The simple opening of a faucet turns on the gas in the heater, and in thirty seconds you have an unlimited supply of scalding hot water.

It will continue to flow at that temperature so long as the faucet is open—it matters not whether you want one gallon or fifty, the supply is *inexhaustible*.

When you shut off the water you also stop the flow of gas into the burners, and the transaction is closed, to your advantage with the gas company.

The Ruud Heater is simply a very long *copper* coil encased in an insulated cast-iron jacket, under which is placed a set of powerful yet economical "Bunsen" gas burners.

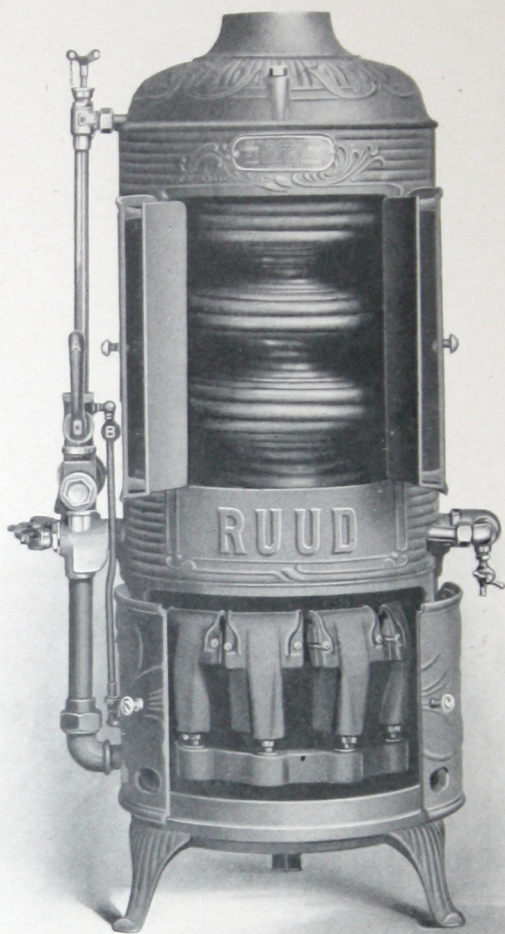
It is the ingenious combination of this wonderful copper heating coil placed above the high power burners that gives the marvelously low cost of hot water.

The gas burns only during the actual time that the water is kept running, and the large amount of water heated with the small quantity of gas consumed is a revelation to those unfamiliar with the Ruud System.



A nice, warm foot bath—  
How enjoyable!





The Ruud—Model F  
Showing how the Self-closing Spring Doors can be readily opened for  
inspection of interior. Note simplicity and accessibility.



Hot Water in our  
Grandmother's day



Over 80% of the heat value of the gas is directly transmitted to the water to raise its temperature. No other water heating system ever known approaches this degree of efficiency.

With ordinary artificial gas, the Ruud Heater will produce one gallon of hot water to each cubic foot of gas consumed—this being based on heating the water from the average cold temperature to scalding hot water.

With gas at \$1.00 per thousand this means 10 gallons of hot water for one cent, or an ordinary hot bath for 2 cents. Allowing fifty gallons of scalding hot water used daily, the cost per month will range from \$2.00 in summer to \$3.50 in winter (including pilot), which is usually less than what was paid for hot water under the old-fashioned system, but no comparison between the two hot water *services* is possible. (Under the Ruud Re-heating system described on page 18, the cost for gas is proportionately even less than above estimate.)

During the heat of the warm weather months the Ruud is of inestimable value.

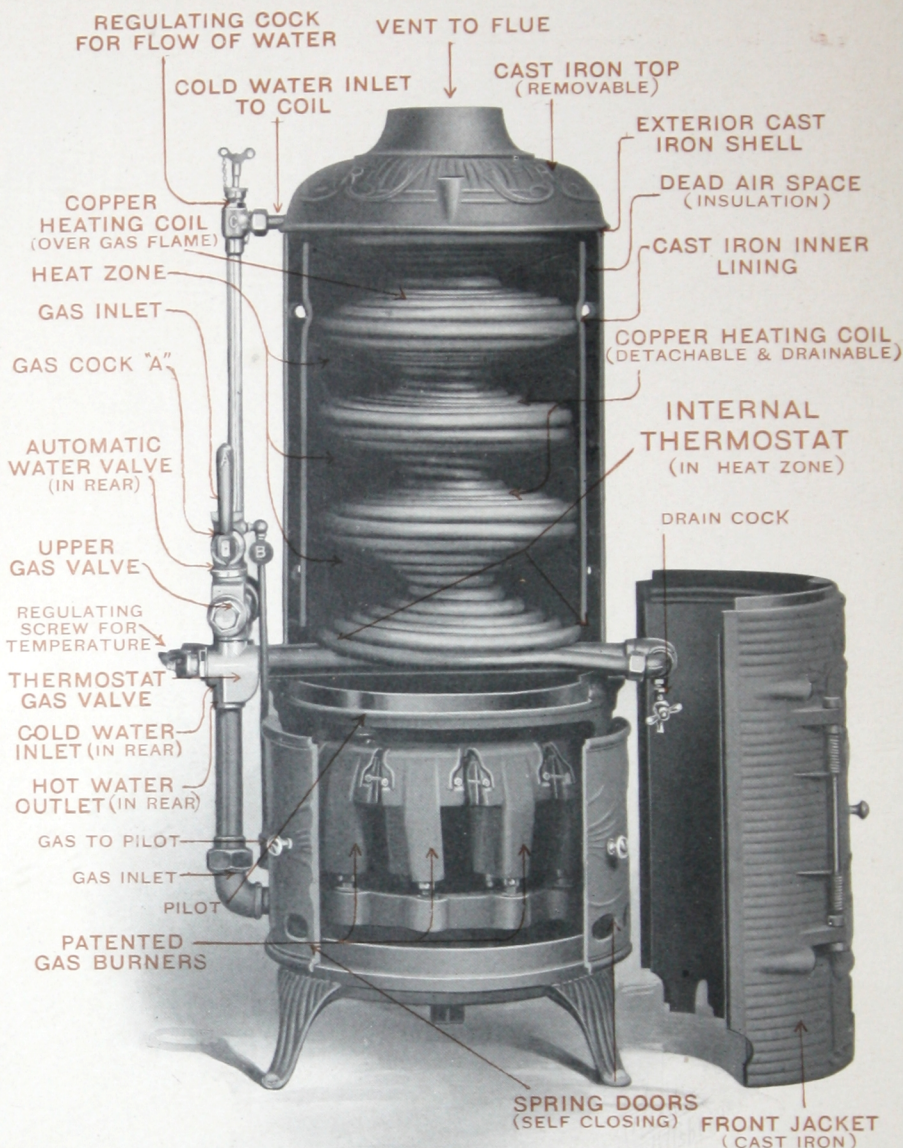
You wish a little hot water—turn the faucet—it's there. Use what you want—close the faucet—and the expense for gas stops instantly. (The tiny pilot light costs only 30 cents per month to maintain.)



In the Ruud, the heat that in other systems is usually lost through low heating efficiency, radiation, etc., is here directly

Hot Water for  
the Toilet





### Showing the General Features of Construction

The best of material and workmanship goes into the "Ruud." Extremely simple, and built to last a lifetime. Weight of standard size Heater, 300 lbs. Height, 4 ft.





Hot Water in our Mother's day—  
The old-fashioned boiler  
and water-back

transmitted to the water and utilized. Can you realize what a tremendous saving in gas this means?

An abundance of hot water at any moment of the day or night is the greatest of conveniences. No other investment in home comfort equals the purchase of a Ruud Heater.

Economy of fuel urges its use; love of comfort and a desire for health both plead its cause.

The Ruud Heater is as far in advance of the boiler system as the boiler system was in advance of the primitive methods used by the aborigines.

A sudden sickness in the middle of the night—hot water needed—turn the faucet—the hot water is there—scalding hot, ready to meet your needs.

Wash day comes—hot water used almost constantly in the laundry. No matter—the rest of the house is as well supplied as on any other day.

Saturday night—half a dozen people wanting a bath—and they have it. Hot water for the last just as abundant as for the first. All the time—in all parts of the house—hot water at your instant command. A simple turn of the faucet—that's all there is to it.

This seems a good deal for one little heater to do; must be something mysterious about it. Nothing of the kind—its simplicity is its most remarkable feature.

Constructed of *copper* and *brass* throughout its working parts, no rust or corrosion is possible.

Very strong and durable—*will last a lifetime.*



Hot Water for the  
Modern Kitchen



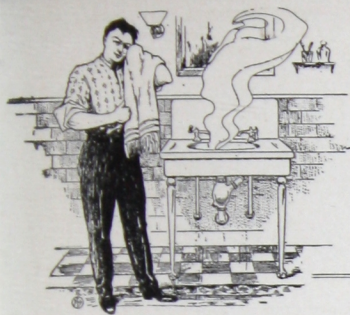
Instantaneous Hot Water all over the house  
 "Turn the Faucet"



The Ruud "Direct" Heating System

(See page 18 for "Re-heating" System)





Hot Water in the Twentieth  
Century Home—the Ruud  
Water Heater installed

Install it, light the tiny pilot—then enjoy the hot water. You scarcely need to look at or think about your heater at all. It is absolutely automatic in its operation.

So simple in construction and perfect in operation that repairs are practically unknown.

Gas ranges are now used universally because it has been found more economical and practical to cook with gas than to use coal, especially during the warm weather months. The necessity for a reliable, economical gas water-heater is more apparent when considered in this connection.

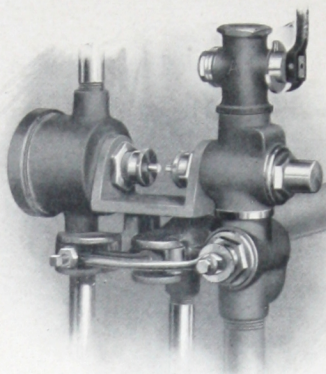
These qualifications can only be had in our Ruud Heater.

The Ruud is no mere theory; it is the result of twelve years' development and experience—a practical, finished machine, unfailing in its reliability. It has won its way solely on merit—twenty thousand Ruuds now in successful use.

We have nearly two thousand testimonial letters from pleased patrons and can give you names of users in your own vicinity. If you won't take *our* word, take theirs.







## THE RUUD AUTOMATIC VALVE and INTERNAL THERMOSTAT

—(Patented)—

Combining the simply constructed water valve and Thermostat, *placed in "heat zone,"* this arrangement gives an automatic control in practical use that is indeed remarkable.

The primary action of turning on and off the gas to main burners (lighted by pilot) is effected by the water valve, which operates instantly in response to the opening and closing of any hot water faucet, by means of the water pressure.

It is the Internal Thermostat, however, which regulates the temperature, and controls the flow of gas to burners in accordance with the heat of the water.

The Ruud is much more reliable and perfect in its operation than heaters depending on valve action for control, which heat the water *blindly* and lack control over the gas in case the valve should "stick" and fail to close.

The double automatic system employed in the Ruud, whereby one device controls the gas by means of the *flow* of the water and the other by means of the *temperature* of the water *in heater*, gives an automatic control and elements of safety and economy that positively cannot be had in any other system.

Having the Thermostat directly in the gas flame, the possibility of steam generation and damage to the heater, enameled fixtures or house piping, is entirely eliminated.

Under the "Re-heating System" (see page 18) the Ruud Thermostatic Control is an indispensable feature, regulating the amount of gas burned in exact proportion to the amount of heat required in the water.



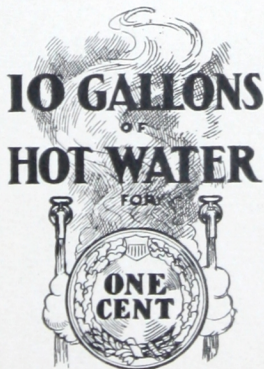
## WHY GAS SUPERSEDES COAL AS A WATER-HEATING FUEL

In some ways gas at \$1 per thousand is a much cheaper fuel than coal at \$6 per ton. This is especially true in heating water for household purposes. While the number of heat units contained in coal are cheaper than the same number of units of heat contained in gas, yet, under certain conditions, gas is decidedly the more practical and cheaper fuel.

The usual coal range, with its water-back and boiler, utilizes but about 5% of the heat contained in the coal, for heating water. This low efficiency, together with the constant cooling off of the boiler, makes it possible to use gas in a Ruud Heater with marked economy.

The Ruud utilizes 80% of the gas in heating water, and as the water is only heated when wanted, there is no constant loss of heat as from the boiler. However, when you have a coal fire in use all winter for other purposes (either for heating or cooking) you can utilize the heat toward reducing the gas bill by using our Ruud Re-heating System, more fully described on page 18.

A comparison of the Ruud with the little gas water heaters sold by gas companies and attached to the boiler, shows even greater economy. For, even supposing that the little heater shows an initial 50% efficiency on a test even when new (not one in a dozen will do anything like so well), there remains the enormous loss of heat from the boiler, which, with the usual size of boilers, amounts to half the total heat generated by the heater.





It is an absolute fact that to duplicate the amount of water heated in five minutes by the Ruud, at a cost of two cents, you would have to light the little heater from thirty to sixty minutes before you want a bath and burn from five to six cents worth of gas, maybe more, if you are not careful to turn off the gas when the water "finally" gets hot. After these little heaters get rusted and clogged with sediment, the difference in favor of the Ruud is still even more marked.

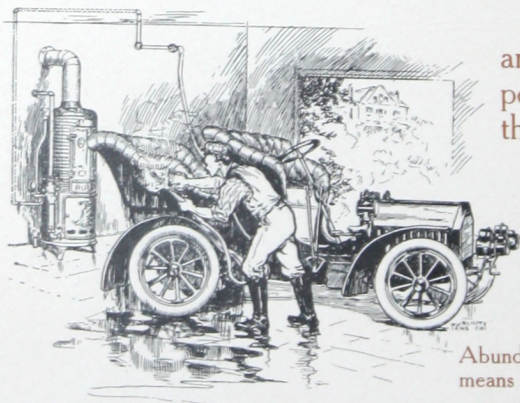
The small gas tank heater, or the "bathroom" water heater, while applicable to a small house or flat, where a very *limited* quantity of hot water *must suffice*, is totally inadequate for a modern home of any pretensions.

In the standard size Ruud Heater there are over 100 lineal feet of copper coil, exposing about 2890 square inches (20 sq. ft.) of *copper* heating surface directly to the flame. This, together with the high-power gas burners and the peculiar advantages of our "instantaneous automatic" system, is what enables the "Ruud" to produce such wonderful results.

Remember, the "*faucet efficiency*" of the Ruud is 80%, and with cheap tank systems only 20% to 30%. The *saving in gas* effected by the Ruud soon makes up the difference in *first cost*. Then think of the superior hot water service—the lifetime durability of the Ruud —the saving in plumbing bills.

Remember, the Ruud is an *investment*, not an expense. It is the cheapest in the end, many times over.

Write us, giving number of hot water faucets and size of household. Do it *now*.



Abundance of Warm Water  
means a nobby Auto-car



## WHAT THEY COST

Prices of Ruud Instantaneous Automatic Gas Water Heaters, complete, ready to attach to gas and water pipes, are as follows:

- |        |  |                                     |
|--------|--|-------------------------------------|
| No. 3. | Capacity, 3 gals. hot water per min.<br>Suitable for small dwellings, usually having only bath-room and kitchen connections for hot water .  | \$85.00                             |
| No. 4. | Capacity, 4 gals. hot water per min.<br>This is the standard size, and is the heater we recommend for the modern home, having bath-room, kitchen and laundry. This size will supply the average household with all the hot water needed .                    | F. O. B.<br>Destination<br>\$100.00 |
| No. 6. | Capacity, 6 gals. hot water per min.<br>This size is adapted for dwellings having two or three bath-rooms, butler's pantry, and one or more hall or bedroom lavatories . . . . .   | F. O. B.<br>Destination<br>\$130.00 |
| No. 8. | Capacity, 8 gals. hot water per min.<br>This size is suitable for large dwellings having three to six bath-rooms, butler's pantry, several hall or bedroom lavatories, etc. Is also well adapted for small hotels, restaurants, small apartment houses, etc. | F. O. B.<br>Destination<br>\$160.00 |

NOTE—Above prices do not include plumbing connections. F. O. B. Destination

Prices herein given and adopted July 2, 1906, supersede all previous lists.

## GUARANTEE

We guarantee all heaters delivered in perfect mechanical condition, and free from defects in workmanship or material, for one year.

With artificial gas testing 650 heat units, the Ruud Heater will use not more than one cubic foot of gas to each one gallon of water raised 63° F. in temperature.

After being connected up in exact accordance with the printed directions furnished, should any Ruud Heater, after a fair 60 days' trial, fail to do exactly what we say it will—your money back without a word.

## RUUD MANUFACTURING COMPANY

General Offices and Works

PITTSBURG, PA.

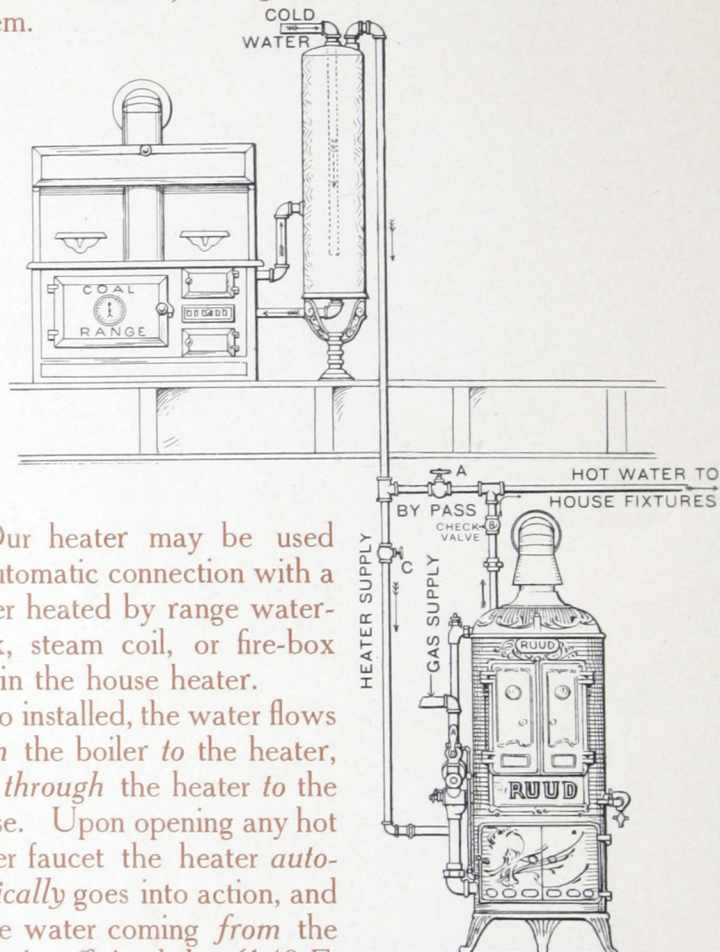
(Always mention whether tank or city pressure water system.)

Branches in all large cities. (See page 4)



## THE RUUD AUTOMATIC RE-HEATING SYSTEM

Utilizing the partially heated water *from* kitchen boiler already installed and heated by coal fire (especially in winter time). Page 12 shows "Direct Heating" system.



Our heater may be used in automatic connection with a boiler heated by range water-back, steam coil, or fire-box coil in the house heater.

So installed, the water flows *from* the boiler *to* the heater, and *through* the heater *to* the house. Upon opening any hot water faucet the heater *automatically* goes into action, and if the water coming *from* the boiler is sufficiently hot ( $140^{\circ}\text{F}$ . or over), the gas is extinguished *automatically* by the heat of the water, but as soon as the temperature of



the flowing water falls below 140°, the heater *automatically* turns on *just enough* gas to bring the water up to 140°. When no hot water faucet is opened, the gas is entirely shut off, and will not light up until the water being drawn *from* boiler needs more heat added.

Especially suitable in cool weather months when the surplus heat from the coal fire can be utilized. The draw-backs and limitations of the coal system are overcome, because your hot water supply is not dependent on the caprices of the coal fire or of the servant. Hot Water is always available, coal fire burning or coal fire out—only, less gas is required when the boiler has previously been partially warmed by the coal range.

We thus combine the desirable features of both systems (coal and gas) to give you a perfect hot water service at low expense.

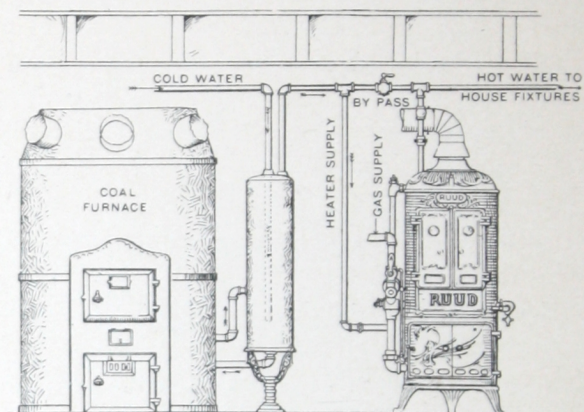
During the warm weather months the Ruud is simply indispensable, furnishing the whole household with inexhaustible Hot Water at low cost for gas, and without heating up any portion of the house to the slightest extent.

This describes briefly our *original* Ruud Re-heating System—so successful that it has been imitated by others; but without the Ruud Thermostat (located in “heat zone” of heater) it is worse than useless, for should a valve “stick” (a common fault with so-called “graduating” valves used on other heaters) steam is sure to be generated, with resultant damage to heater and plumbing.

*Remember*—The “Ruud” does *not* circulate the boiler or heat the water in same. It simply *intercepts* the flowing water on its way *from* the boiler *to* fixtures and automatically adds (when needed) the necessary degrees of heat to guarantee you Economical and Inexhaustible Hot Water, always available.

(OVER)





The above cut shows another adaptation of our Ruud Re-heating System, where tank is located in cellar and the water receives a preliminary heating treatment by means of fire-box coil in coal furnace, before being passed to heater.





